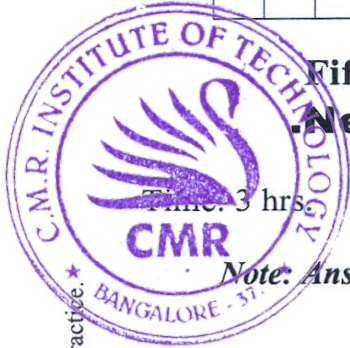


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Fifth Semester B.E. Degree Examination, Jan./Feb. 2023 Net Framework for Application Development

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is the significance of using name spaces? List the rules to name variables. (04 Marks)
- b. Define method. Explain the syntax of declaring a method. (04 Marks)
- c. What are the different decision making statement in C#? Explain any two with example. (08 Marks)

OR

- 2 a. Write a C# program to find factorial of a number. (04 Marks)
- b. Differentiate between while and do_while with example. (04 Marks)
- c. What is an exception? Explain try, catch and finally with an example. (08 Marks)

Module-2

- 3 a. What is constructor? Give an example for overloading constructor. (06 Marks)
- b. What are static methods and static classes? Illustrate with example. (08 Marks)
- c. What do you mean by boxing and unboxing? (02 Marks)

OR

- 4 a. Explain creation of ref and out parameters. (06 Marks)
- b. Differentiate between structures and classes in C#. (06 Marks)
- c. How to declare one dimensional array? Write a C# code to copy content of one array to another array. (04 Marks)

Module-3

- 5 a. Write a C# function or method to find the smallest element in a array. (08 Marks)
- b. Illustrate with an example, calling base-class constructor. (04 Marks)
- c. Define an interface? Give an example. (04 Marks)

OR

- 6 a. List the interface restrictions. (06 Marks)
- b. How does garbage collector works? (06 Marks)
- c. Explain implementation of IDisposable interface. (04 Marks)

Module-4

- 7 a. What is a property? Explain syntax for property declaration along with property restrictions. (08 Marks)
- b. What is an indexer? Differentiate between indexer and array. (04 Marks)
- c. What is the purpose of Generics? Differentiate between Generics and Generalized classes. (04 Marks)

OR

- 8 a. Write an algorithm to insert an item into ordered binary tree. (06 Marks)
b. Explain linked list and dictionary collection classes. (06 Marks)
c. Write a generic method for swapping values of parameters. (04 Marks)

Module-5

- 9 a. Explain IEnumerable interface methods and properties. (04 Marks)
b. Explain implementation of enumerator by using an iterator. (08 Marks)
c. What are delegates? Give an example. (04 Marks)

OR

- 10 a. Explain how event can be declared, subscribed and unsubscribed. (04 Marks)
b. Write the LINQ query to select data, Filtering data and Joining data [assume your own database]. (06 Marks)
c. Write a C# program to overload + to add two complex numbers. (06 Marks)
